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OCT 24 1968

DEPARTMENT OF THE ARMY Fort Detrick Frederick, Maryland Turk Hifzicsihha Ve Tecrubi Biyoloji Hecmussi, Vol. 2, 1940-41, Pare 191
Tularenia - Endotoxin

by

Dr. Talat Vasfi Öz

The author was able to isolate an effective endotoxin from two Pact.

tularense strains, strained by him from a Thracian boar in 1937. (See this periodical, Vol. 1, No. 2, Page 158 and the Report in the Controlblatt fur Entericlogic I, Section - Reports, Vol. 129, No. 5/5). The cultures were poured onto blood-cystin-agar in "petri" plates, strained, the culture souled in sterile, distilled water, and this emulsion was autolysed for 15 days at 37° and shaken twice daily, after which all bacteria appeared dead. The coulsion was centrifuged after a sterility test, and the resulting clear autolysate was dried in a vacuum over concentrated sulfuric acid. This dried endotoxin was dissolved in sterile distilled water, 50 milligrams to every com, and this bouillon colored solution after a second centrifuging was applied to the fellowing experiments.

- 1. Intravenous injection of 0.3 ccm of this solution instantly kills white mice weighing 20 g, with pronounced cramps.
- 2. Intraperitoneal injection of the same dose of this solution kills white mice within 24 hours.
- 3. Intraperitoneal injection of the same dose of this calution kills guines pigs weighing 250-300 g, with yelping eramps.
- 4. Intracutaneous injection of the same dose in the guinea ply results in soute vasoconstriction in the infection area.
- 5. An immune serum with a specific flaky reaction was obtained by repeated intravenous injection of a serum from human tularemia convalescents

and from guinea pigs which had survived a chronic tularemia infection. This immune serum also neutralines the localized vasconstriction described above under No. 4).

6. The endotoxin is not effective hemolytically.

The author believes that his endotoxin could be used in standardizing tularemia cure serum, and in the infected state as an incoulation against possible tularemia.

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